

RE-2Y(C)Yv-fl 1 – 24 pairs



Instrumentation cable according to en 50288-7

General	Collective screened cable for instrumentation, control and communication applications.	
Conductor	Annealed copper solid or stranded	
Insulation	Extruded PE. Nominal wall thickness 0,4 mm. Colors white and black with numbers on white cores 1, 2...n- according to number of pairs.	
Twisting	Two insulated conductors twisted together	
Stranding	Pairs twisted together. Polyester tape applied on the strand.	
Wrapping	At least 1 layer of plastic tape	
Screen	Tinned copper wire braid	
Sheath	Extruded flame retardant PVC, reinforced	
	Nominal wall thickness	cable $\varnothing \leq 24$ mm 1,8 mm cable $\varnothing > 24$ mm 2,0 mm
	Colour of sheath: black or blue	
Physical properties	Flame retardant	IEC 60332-1-2
	Installation temperature range	-5 °C to +50 °C
	During operation	-30 °C to +70 °C
	Min. bending radius	7,5 x cable \varnothing
	Sunlight resistance	UL 1581 section 1200
	Oil resistance	ICEA S-82-552/NEMA WC 55
Identification	Lot number, cable type, cable size, production month, year, manufacturer's name and meter marking printed on the sheath	

Electrical properties

		Unit	0,5 mm ²	0,75 mm ²	1,0 mm ²	1,3 mm ²
Conductor size	nom.					
Conductor resistance	max.	ohm/km	39,2	24,6	18,1	14,2
Insulation resistance	min.	Mohmxkm	5000	5000	5000	5000
Mutual capacitance (800Hz)						
cable of one pair	max.	nF/km	120	120	120	120
cable of 2 to 4 pairs	max.	nF/km	100	100	100	100
cables above 4 pairs	max.	nF/km	80	80	80	80
L/R ratio	max.	μ H/ohm	25	25	25	40
Test voltage						
Conductor/conductor	min.	VDC 30s	4000	4000	4000	4000
Conductor/screen	min.	VDC 30s	2000	2000	2000	2000
Operating voltage (Ueff)	max.	V	300	300	300	300

Number of pairs	0,5 mm ²		0,75 mm ²		1,0 mm ²		1,3 mm ²	
	Outer \varnothing nom. mm	Weight nom. kg/km	Outer \varnothing nom. mm	Weight nom. kg/km	Outer \varnothing nom. mm	Weight nom. kg/km	Outer \varnothing nom. mm	Weight nom. kg/km
1	8,3	109,8	8,7	118,7	9,4	130,5	9,7	139,7
2	10,7	143,0	11,4	160,7	12,3	183,9	12,9	203,9
3	11,1	158,9	11,9	185,0	12,8	214,3	13,5	241,6
4	11,9	181,3	12,7	214,4	13,7	250,7	14,5	285,3
6	13,6	230,1	14,6	278,2	15,6	326,1	16,7	375,1
8	14,2	263,9	15,4	323,9	16,4	382,3	17,4	443,7
12	16,4	342,6	17,8	427,4	19,0	511,3	20,2	599,2
16	18,2	417,5	19,8	526,2	21,2	636,1	22,6	750,1
20	19,7	487,2	21,5	622,5	23,5	775,3	25,1	916,1
24	21,1	557,2	23,1	714,4	25,3	891,9	27,0	1064,3

Technical data of triples, other conductor dimensions and number of pairs will be stated on request.